



# Electrical Energy Systems

## Description

*For students with an interest in electronics, programming and robotics, this is a course that is tailored for you. Although experience from year 9 Systems is preferred, it is not necessary. This unit will introduce the student to basic electronics, but more importantly it focuses on the world of programmable micro-controllers in which the aim is to build a mechanical/electrical closed loop system. Closed loop means the project must react to a stimulus, and previous projects have included bots that detect an obstacle and avoid it by deciding the best path to travel. This subject has a cost associated with it and depends on the complexity and type of micro-controller used.*

## Unit Topics

- Electronics*
- Programming*
- Micro-controllers*

## Skill Development

*Soldering, Programming, Fabrication and understanding Mechanical and Electrical Systems.*

## Possible Assessment Tasks

*Folio, Ongoing Training and the Fabrication of a Closed Loop System.*

## Career Options

*Robotics*